# EOS EWS

## BELT-DRIVEN EXHAUST FAN

Exhaust fan specifically designed for high airflow capacity. Available in 42'' and 53'', their main features are great efficiency and low maintenance costs.
The fan housing is available in galvanized or stainless steel (Aeternum EWS 53 only) for the maximum corrosion resistance. The entire line is tested in our PERIlab and certified by BessLab.

**Choice of two patented opening systems**

EOS

**FLAP SYSTEM**

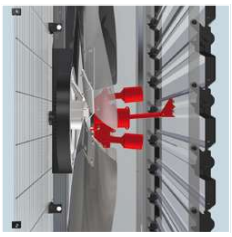
Closed shutter

Exclusive opening

Open shutter

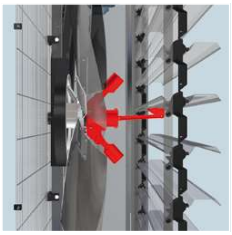
EWS

**CENTRIFUGAL SYSTEM**



Closed shutter

Conventional opening



Open shutter

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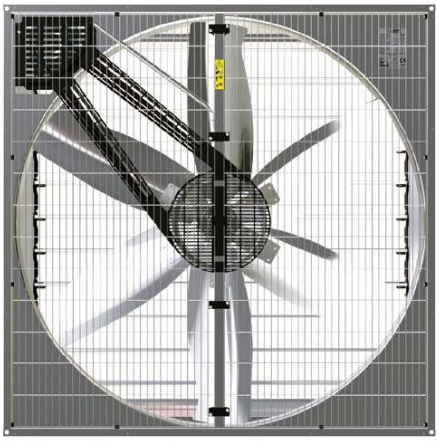
## Features and advantages

# EOS EWS



Effective protection from light and air thanks to the gaskets, which guarantee a perfect closure of the blades

**SK** optional external safety netting

Fixing threaded bush (M8)

Bottom panel with 4 practical water discharge holes

Easy opening guards

Pre-tensioned V-belt

Propeller hub in steel with corrosion protection

Plastic safety guard on drive belt (CA optional)



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## Technical features

### EOS / EWS 53 - test number Bess Lab: 10090; 10092; 10094; 10097; 10106; 10108

| Model | Voltage* | Frequency | Propeller rotation speed (0 Pa - 0 $inH_2O$) | Air flow | | | | Absorbed power (0 Pa - 0 in $H_2O$) | Absorbed power (25 Pa - 0.10 $inH_2O$) | Specific power input (0 Pa - 0 $inH_2O$) | Specific power input (25 Pa - 0.10 $inH_2O$) | Ventilating Efficiency Ratio (0 Pa - 0 $inH_2O$) | Ventilating Efficiency Ratio (25 Pa - 0.10 $inH_2O$) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 0 Pa 0 $inH_2O$ | 12 Pa 0.05 $inH_2O$ | 25 Pa 0.10 $inH_2O$ | 50 Pa 0.20 $inH_2O$ | | | | | | |
| EOS 53/2* | Δ 220-240 V Y 380-420 V | 50 Hz | 516 RPM | 26.200 cfm<br>44.500 m³/h | 25.300 cfm<br>42.900 m³/h | 24.200 cfm<br>41.100 m³/h | 21.700 cfm<br>36.800 m³/h | 1914 W | 2019 W | 43 W/ (1000m³/h) | 49 W/ (1000m³/h) | 13,7 cfm/W | 12,0 cfm/W |
| EWS 53/2 | Δ 220-270 V Y 380-460 V | 60 Hz | 515 RPM | 26.200 cfm<br>44.600 m³/h | 25.200 cfm<br>42.900 m³/h | 24.200 cfm<br>41.200 m³/h | 22.100 cfm<br>37.500 m³/h | 1916 W | 2038 W | 43 W/ (1000m³/h) | 50 W/ (1000m³/h) | 13,7 cfm/W | 11,9 cfm/W |
| EOS 53/1,5* | Δ 220-240 V Y 380-420 V | 50 Hz | 473 RPM | 24.200 cfm<br>41.100 m³/h | 23.100 cfm<br>39.300 m³/h | 22.000 cfm<br>37.400 m³/h | 19.500 cfm<br>33.100 m³/h | 1491 W | 1603 W | 36 W/ (1000m³/h) | 43 W/ (1000m³/h) | 16,2 cfm/W | 13,7 cfm/W |
| EWS 53/1,5 | Δ 220-270 V Y 380-460 V | 60 Hz | 473 RPM | 24.100 cfm<br>40.900 m³/h | 23.100 cfm<br>39.200 m³/h | 22.000 cfm<br>37.400 m³/h | 19.600 cfm<br>33.300 m³/h | 1496 W | 1611 W | 37 W/ (1000m³/h) | 43 W/ (1000m³/h) | 16,1 cfm/W | 13,7 cfm/W |
| EOS 53/1* | Δ 220-240 V Y 380-420 V | 50 Hz | 393 RPM | 20.200 cfm<br>34.300 m³/h | 19.000 cfm<br>32.200 m³/h | 17.400 cfm<br>29.500 m³/h | 13.700 cfm<br>23.200 m³/h | 934 W | 1021 W | 27 W/ (1000m³/h) | 35 W/ (1000m³/h) | 21,6 cfm/W | 17,0 cfm/W |
| EWS 53/1 | Δ 220-270 V Y 380-460 V | 60 Hz | 390 RPM | 20.000 cfm<br>34.000 m³/h | 18.700 cfm<br>31.800 m³/h | 17.300 cfm<br>29.300 m³/h | 13.500 cfm<br>23.000 m³/h | 942 W | 1045 W | 28 W/ (1000m³/h) | 36 W/ (1000m³/h) | 21,2 cfm/W | 16,5 cfm/W |

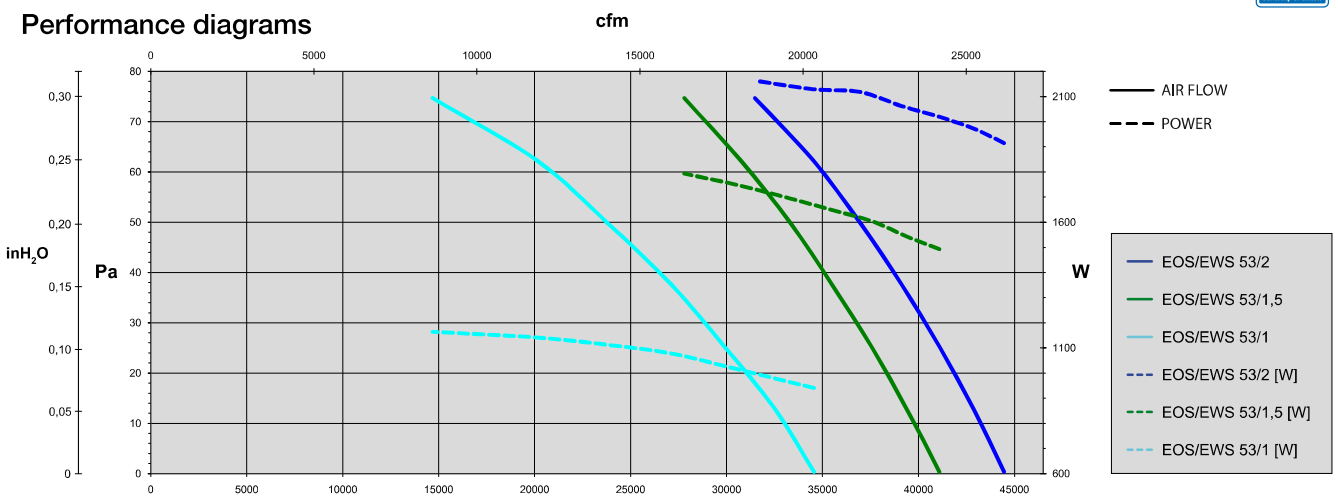
### EOS / EWS 42 - test number Bess Lab: 12324; 12321; 12317; 12320

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EOS 42/1* | Δ 220-240 V Y 380-420 V | 50 Hz | 579 RPM | 14.600 cfm<br>24.900 m³/h | 13.900 cfm<br>23.700 m³/h | 13.100 cfm<br>22.300 m³/h | 11.400 cfm<br>19.400 m³/h | 909 W | 978 W | 37 W/ (1000m³/h) | 44 W/ (1000m³/h) | 16,1 cfm/W | 13,4 cfm/W |
| EWS 42/1 | Δ 220-270 V Y 380-460 V | 60 Hz | 610 RPM | 15.400 cfm<br>26.200 m³/h | 14.800 cfm<br>25.100 m³/h | 14.000 cfm<br>23.800 m³/h | 12.400 cfm<br>21.000 m³/h | 1097 W | 1171 W | 42 W/ (1000m³/h) | 49 W/ (1000m³/h) | 14,0 cfm/W | 12,0 cfm/W |
| EOS 42/0,75* | Δ 220-240 V Y 380-420 V | 50 Hz | 525 RPM | 13.300 cfm<br>22.600 m³/h | 12.400 cfm<br>21.100 m³/h | 11.600 cfm<br>19.700 m³/h | 9.400 cfm<br>16.000 m³/h | 724 W | 784 W | 32 W/ (1000m³/h) | 40 W/ (1000m³/h) | 18,3 cfm/W | 14,8 cfm/W |
| EWS 42/0,75 | Δ 220-270 V Y 380-460 V | 60 Hz | 527 RPM | 13.300 cfm<br>22.500 m³/h | 12.600 cfm<br>21.300 m³/h | 11.700 cfm<br>19.900 m³/h | 9.600 cfm<br>16.300 m³/h | 741 W | 804 W | 33 W/ (1000m³/h) | 40 W/ (1000m³/h) | 17,9 cfm/W | 14,5 cfm/W |

Tested according to ANSI/AMCA 210-07 ANSI/ANSHRAE 51-07 complying with ASABE/S565 OCT 2005.
*Single phase motors, different voltage and speed regulable motors over transformers are available on request.
**Note:** All fans tested with shutter and protection net.

Certified by BESS LAB University of Illinois

## Performance diagrams




Performance diagrams referred to 50Hz versions

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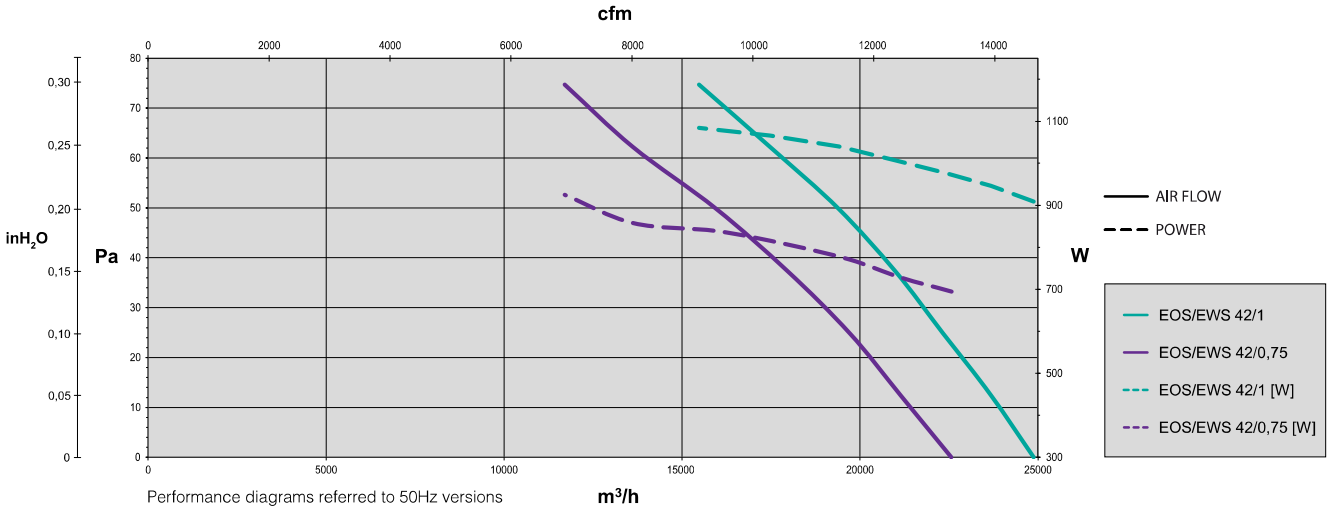
## Performance diagrams

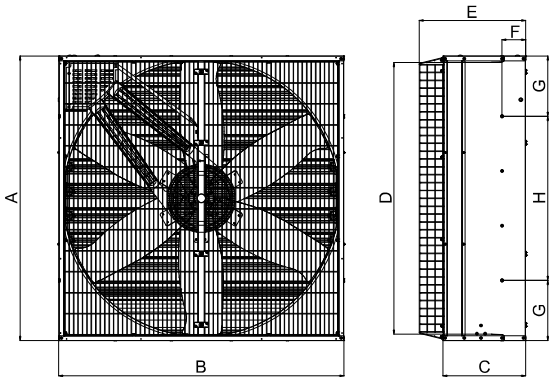
# EOS EWS




Performance diagrams referred to 50Hz versions

## Dimensions and loading possibilities

| Dimensions | EOS / EWS 53 | EOS / EWS 42 |
|---|---|---|
| Dimension - A - [mm] | 1380 | 1145 |
| Dimension - B - [mm] | 1380 | 1145 |
| Dimension - C - [mm] | 400 | 400 |
| Dimension - E - [mm] | 515 | 515 |
| Dimension - F - [mm] | 114 | 109 |
| Dimension - G - [mm] | 292 | 225 |
| Dimension - H - [mm] | 795 | 692 |
| Dimension - D - [mm] | 1340 | 1060 |
| Sound pressure level Lpa* [dB] | 74,8-68,4 | 72,7-68,2 |
| Weight** [kg] | 80-69 | 54-50 |




*Measurement surface according to UNI EN ISO 3744 pic C.7
**The weight depends on chosen configuration.

| Loading possibilities on pallet | | |
|---|---|---|
| Fully assembled version (FA) | EOS / EWS 53 | EOS / EWS 42 |
| LxWxH [mm] | 1200x1400x1550 | 1200x1200x2200 |
| N° pieces | 3 | 5 |
| Gross weight - kg | 250 | 270 |

| Loading possibilities | | | | |
|---|---|---|---|---|
| | Fully assembled version (FA) | | Knock-down version (KD) | |
| Model | 53 | 42 | 53 | 42 |
| Container 20ft | 28 | 50 | 180 | 250 |
| Container 40ft | 58 | 102 | 300 | 450 |
| Container 40ft HC | 66 | 124 | --- | --- |
| Truck | 74 | 140 | 360 | 500 |



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